

# Motor Vehicle Safety

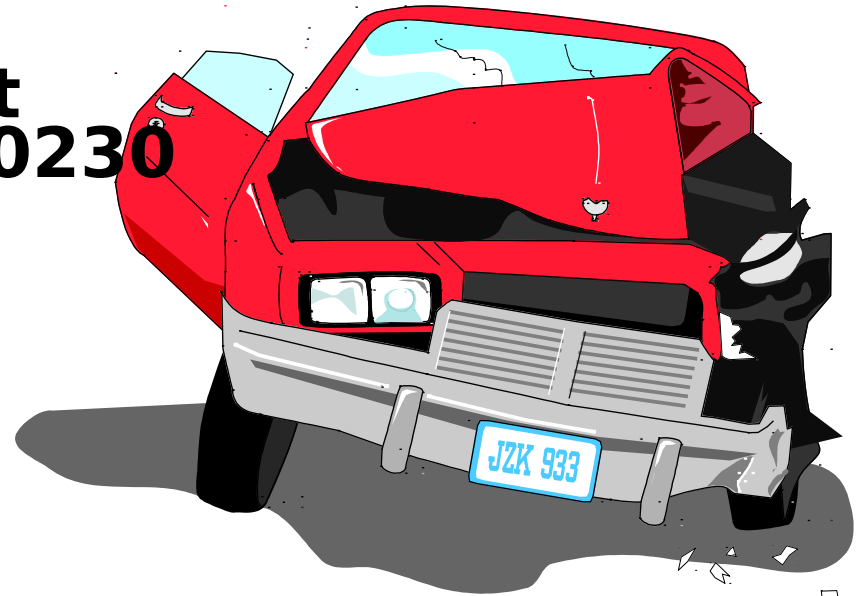
# Vehicle Accidents are the #1

**ProfilesPOV:**

- E4 -E5
- 21-24
- Fri-Sat
- 2230-0230

**AMV:**

- E3-E5
- 19-28 Yrs
- Mon-Fri
- 0720-1600



## Leading Causes of Severe Injury and Death

**Analysis:**

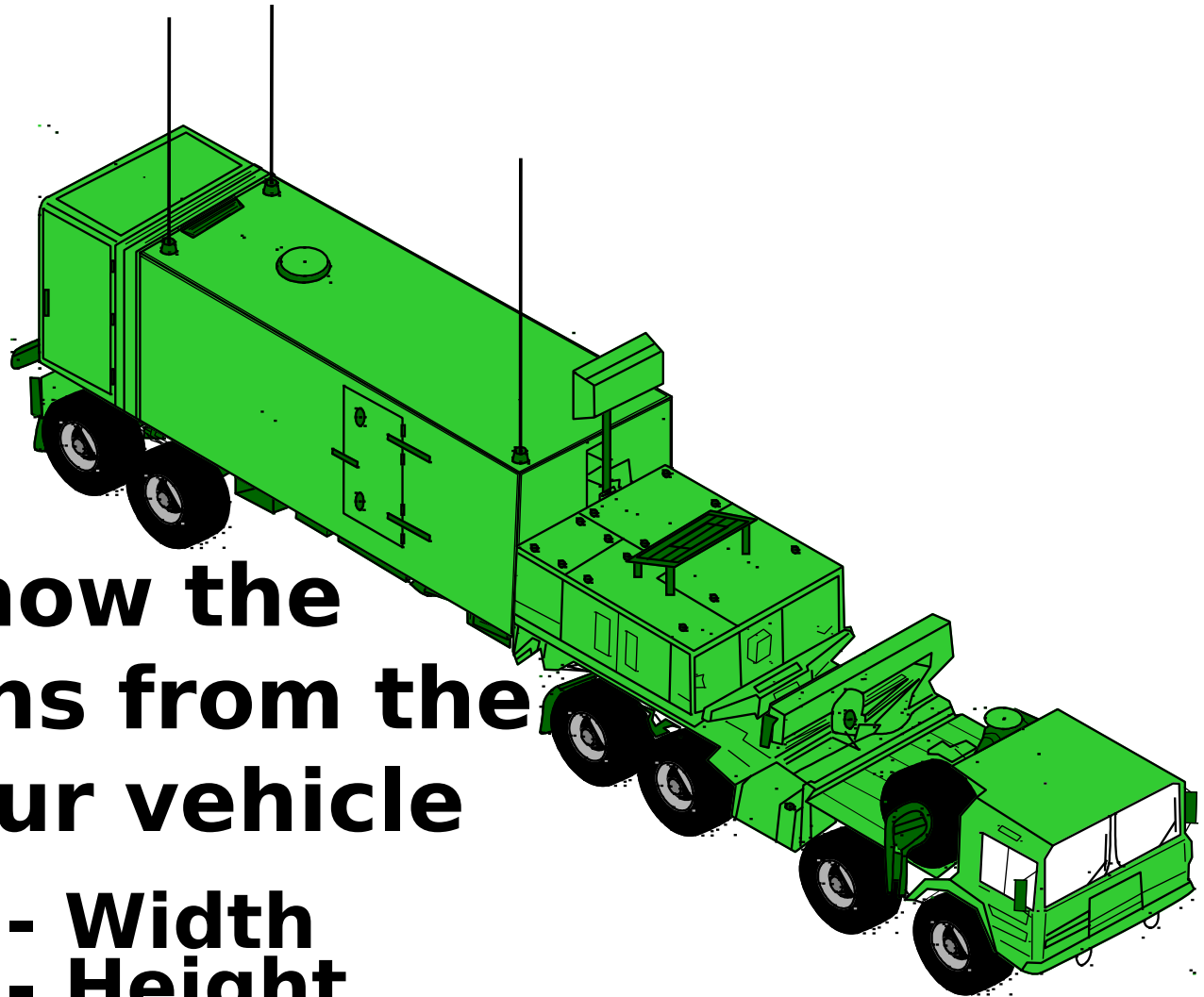
- High Risk Behavior
- Violation of Standards
- Low Ability to Recognize Hazards
- Underestimate Personal Risk
- Overestimate Ability

**VEH-1**

# HAZARD RECOGNITION

**Always know the  
restrictions from the  
size of your vehicle**

- Width
- Height
- Weight



**VEH-2**

# HAZARD RECOGNITION

Always remember:

Safe Stopping Distance

Safe Following: 2 Sec<sub>+</sub>

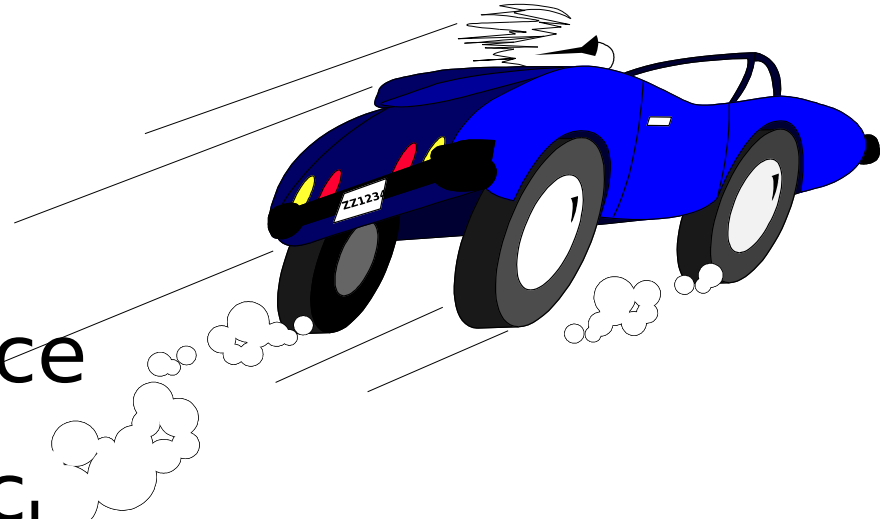
1 sec Nite

1 sec Fog/Poor Visibility

1 sec Wet Pavement

2 sec Tailgated

2 sec Towing Trailer



# Estimating Personal Risk

**Risk Factors**

**include:**

**Age**

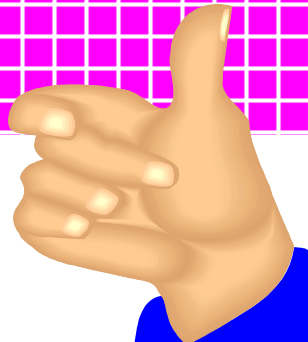
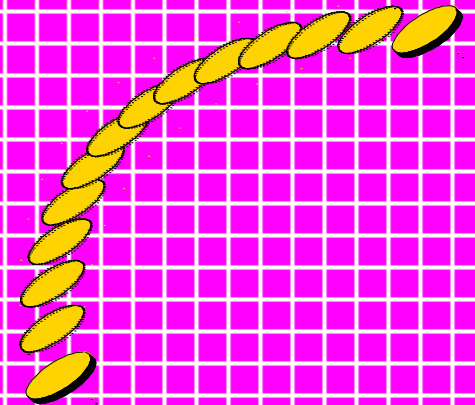
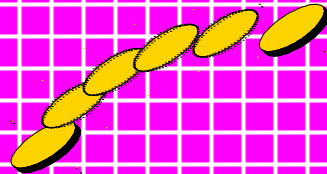
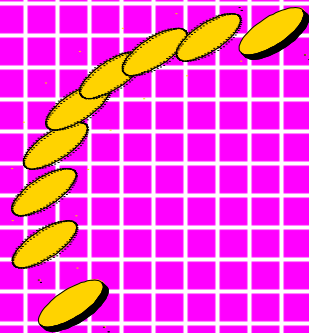
**Seatbelts**

**Vehicle Type**

**Alcohol**

**Fatigue**

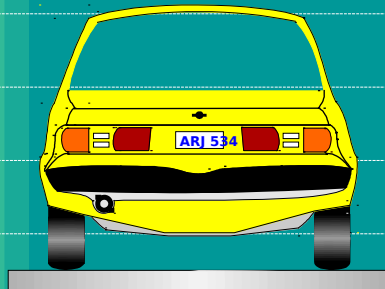
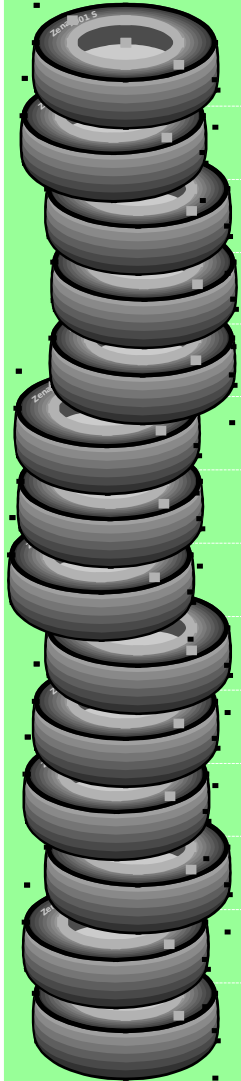
**Location**



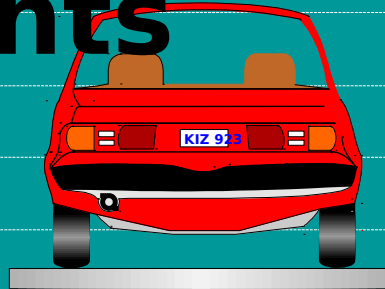
**VEH-4**

# Estimating Personal Risk

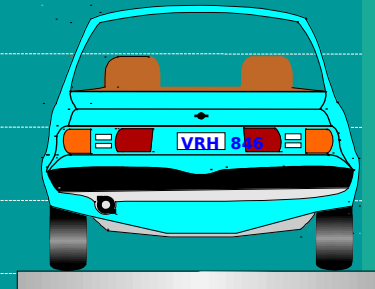
**19-25 year olds have more accidents**



**16-18**



**19-25**

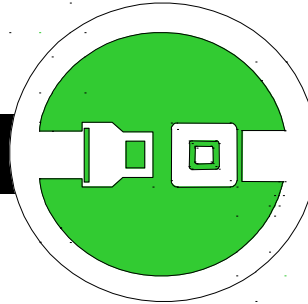


**Older**

VEH-5

# Estimating Personal Risk

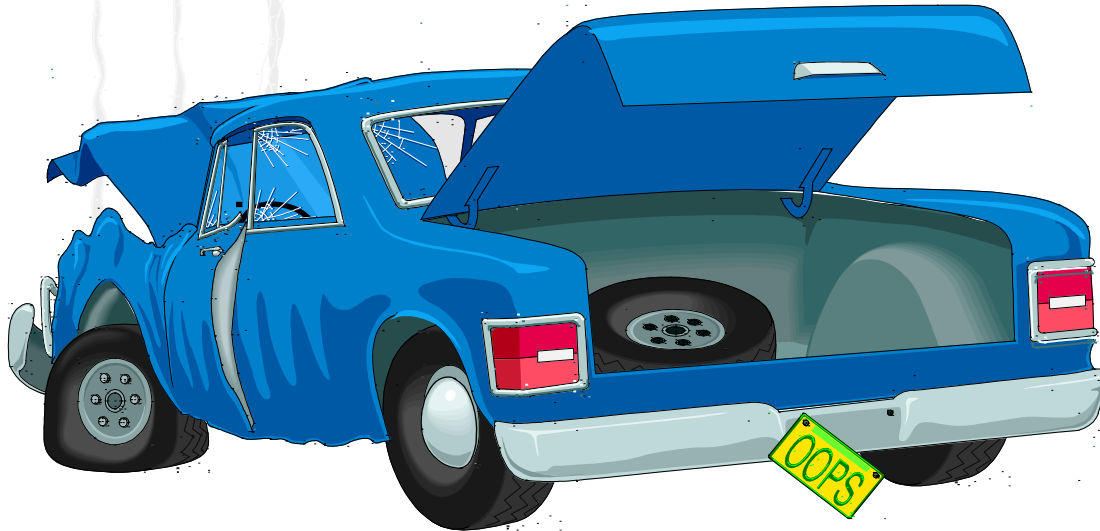
**Wearing seatbelts**



**SEAT BELT**

**Reduces your risk 42%**

**+**

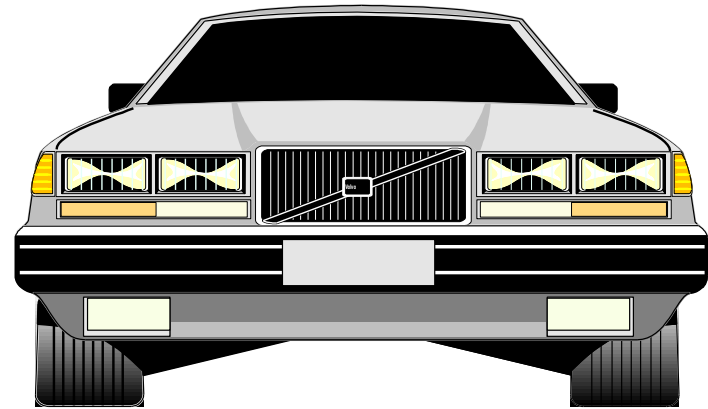


**Using Air Bags reduces your risk  
another 47% that's 89% reduction**

# Estimating Personal Risk

## Vehicle Size:

**- 700 lbs**

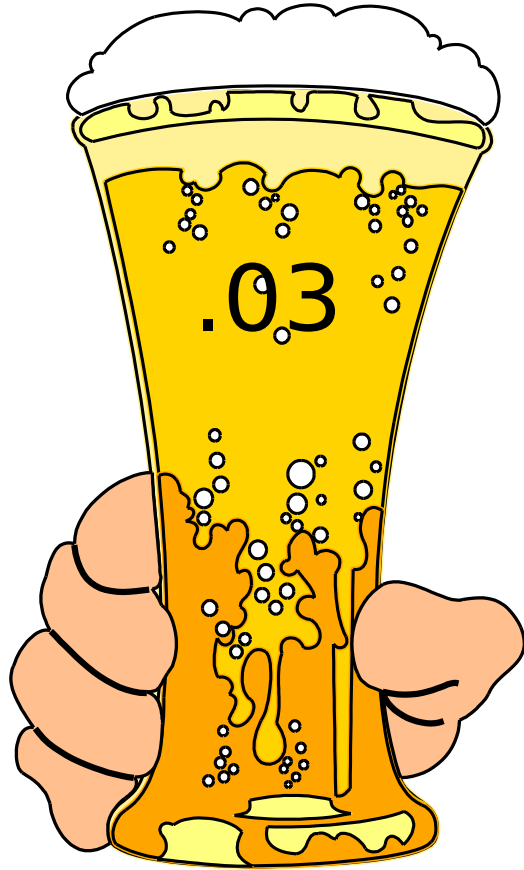


**+ 700 lbs**

**75% Decrease in Fatality Risk**



# Estimating Personal Risk



NOT Drinking  
Reduces your Risk  
of Fatality  
by  
**91.5%**



# Estimating Personal Risk

Fatigue:



A Good Nights Rest and Breaks While Driving  
Reduce your Risk by **12%**

# **Estimating Personal Risk**

## **Locations:**

**Interstate versus Rural 2-Lane Roads**

**Reduces Your Risk by 12%**

**Normal Speeds versus High Speeds on the**

**Interstate reduces Your Risk by  
as much as 30%!**



**Construction Zones Increase  
Your Risk - Watch Out!**

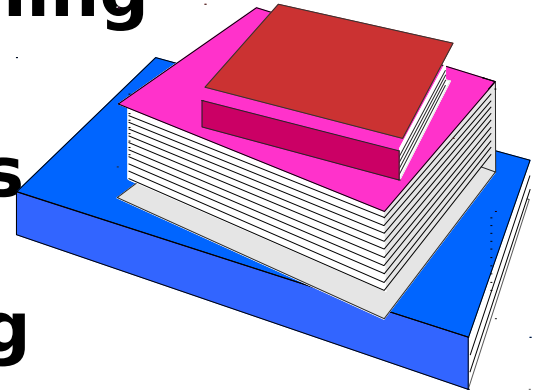
# Standards

**AR 600-55**

- Qualification Training
- Annual Sustainment Training
- Annual Check Rides
- Remedial Training

**AR 385-55**

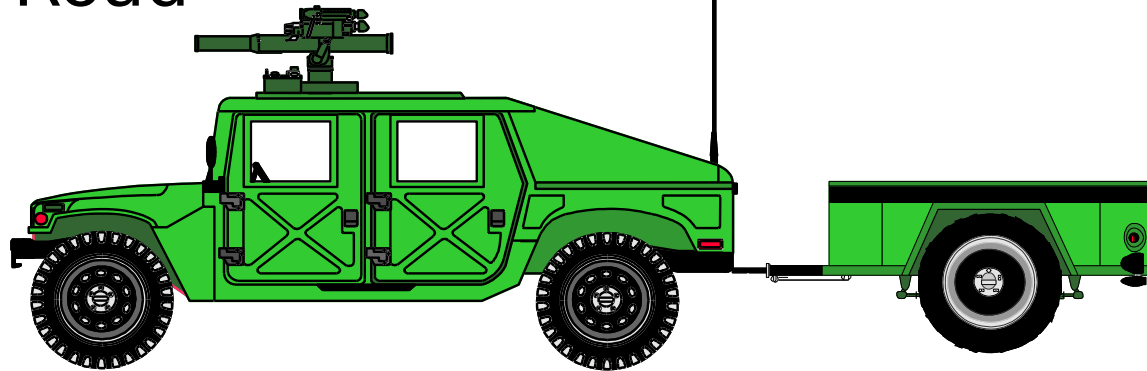
- Crew Rest
- Ground Guides
- Vehicle Marking
- Accident Prevention



# Risk Reduction in Vehicle Operation

18 yrs old  
Intoxicated  
Unbelted  
Light Vehicle  
Two Lane Road

**=100 X Avg. Fatality Risk**



- Follow Standards
- Use Defensive Driving Techniques
- Avoid High Risk Behavior
- Control Your Risk!

# POV SAFETY AWARENESS

## PREVENTION OF POV ACCIDENTS

- **Privately owned vehicle (POV) accidents are consistently the number one killer of Army soldiers. Every 72 hours a soldier is killed in a POV accident. Can the chain of command do anything about soldiers being killed in off-duty POV accidents?**
- **The answer is: WE CAN and WE MUST!**

# POV SAFETY AWARENESS

## PREVENTION OF POV ACCIDENTS (CONT.)

- **Soldiers have a duty to avoid unnecessary injury to themselves by using safety devices and equipment. When a violation occurs, commanders should consider a full range of possible actions before selecting the course of action to deal with the violation.**

# POV SAFETY AWARENESS

## FACTORS THAT CAN REDUCE THE RISK OF AN ACCIDENT

- **Training**
- **Safety restraint usage**
- **Counseling of traffic law offenders**
- **Enforcement**
- **Inspection and registration of POVs**



# POV SAFETY AWARENESS

## TOOLBOX OF CONTROLS

- Use the right tool to reduce the risk of hazards that have killed soldiers in POV accidents.
- Since no single control can target all hazards or be guaranteed to be 100% effective, it is important to develop a program with a variety of controls.

# POV SAFETY AWARENESS

## SOME CONTROLS THAT HAVE WORKED IN UNITS

- **Wind-down time, no PT prior to long weekend.**
- **Vehicle inspections at battalion level (administrative and mechanical) at a minimum, semi annual (spring and fall).**
- **Provide soldiers with important vehicle safety information.**

# POV SAFETY AWARENESS

## MORE CONTROLS

- **Enforce training on POV safety.**
- **Provide Video tapes and realistic training material (fatal vision goggles, etc.)**
- **Conduct seminars: Use dynamic, interesting discussion leaders (state police, MADD, emergency service personnel, fire department, etc.)**

# POV SAFETY AWARENESS

## 1998 SUMMARY OF STATISTICS

### THE IMPAIRED DRIVER

- **More Americans have died in alcohol-related traffic crashes than in all the wars the United States has been involved in since our country was founded. NHTSA, 1996.**

# POV SAFETY AWARENESS

## MORE STATISTICS

- In 1997, there were 2 alcohol-related traffic deaths per hour, 45 per day and 315 per week. That's the equivalent of 2 jetliners crashing week after week. NHTSA, 1997.

# POV SAFETY AWARENESS

## STILL MORE STATISTICS

- **16,189 People were killed in alcohol-related traffic crashes--an average of one every 32 minutes. These deaths constituted approximately 36.6 o/o of the total 41,967 total traffic fatalities. Source NHTSA, 1998.**

# POV SAFETY AWARENESS

## CAN YOU BELIEVE IT, MORE STATISTICS

- During the period 1982-1997, approximately 333,586 persons lost their lives in alcohol-related traffic crashes. NHTSA 1997.

# POV SAFETY AWARENESS

## INSTALLATION TRAFFIC OFFENSES

- **Improper Backing**
- **Hit and Run**
- **Failure to Yield**
- **Failure to Maintain Single lane of Travel**



# POV SAFETY AWARENESS

## MORE INSTALLATION TRAFFIC OFFENCES

- **Failure to Maintain Control**
- **Following to Close**
- **Failure to Judge Proper Distance/  
Clearance**

# POV SAFETY AWARENESS

## 1999 INSTALLATION TRAFFIC ANALYSIS

- During the period 1 Jan 99- 30 Sept 99, there **were 159 Traffic Accidents. 11 of which were with injuries.**
- **Twenty four accidents** has occurred on Missouri Ave alone.
- Primary cause is inattentive driving, speeding, and following too close.

# POV SAFETY AWARENESS

## US SPEEDING ANALYSIS

- **Speeding was a factor in 28% of the fatal crashes that occurred on dry roads in 1998.**
- **32% of those that occurred on wet roads.**
- **Speeding was a factor in 55% of the fatal crashes that occurred when there was snow or slush on the road.**
- **60 % of those that occurred on icy**

# **POV SAFETY AWARENESS**

## **SPEEDING-RELATED FATALITIES**

- **In 1998, 20% of speeding drivers involved in fatal crashes had an invalid license at the time of the crash.**
- **Speeding was involved in almost one-third of the fatal crashes that occurred in construction/ maintenance zones in 1998.**
- **In 1998, 85% of speeding-related fatalities occurred on roads that were not Interstate highways.**

# **POV SAFETY AWARENESS**

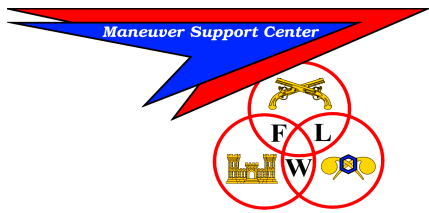
## **1998 SPEEDING-RELATED FATALITIES** **CONT.**

- **14% were Interstate Highway**
- **42% were Non-Interstate, Speed Limit under 55mph**
- **40% were Non-Interstate, Speed Limit 55 mph and above**
- **4% were Unknown Roadway Class or Unknown Speed Limit**

# POV SAFETY AWARENESS

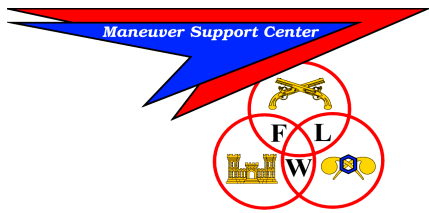
## CONCLUSION

- **POV accidents most often occur off duty and post, outside the presence of Army supervision. Commanders can provide direct influence through information, motivation, and guidance given to POV operators before they leave Army control.**



# Instructions

- **Well that is the story.**
- **Good luck on the test!**
- **If you do not pass the examination please review this material again.**
- **More importantly than passing the examination is to take these lessons to heart and protect your life and the life of your family and friends.**



For information and or  
recommendations for improvements  
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